

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY
DEPARTMENT OF CROP SCIENCE AND TECHNOLOGY

Session: 20014/2015

CST 514: Crop Propagation Techniques

Instructions: Answer any five (5) questions in all.

Semester: Rain

Credit units: 2

Time allowed: 3 hrs

1. a) Describe the two main methods of asexual propagation and
b) Discuss fully, using appropriate diagrams, two sub categories of each method.
2. Explain the advantages and disadvantages of vegetative propagation practice in crop production.
- 3 (a) Explain what is pollination and types
(b) With a well labeled diagram, describe fertilization in crop plants.
(c) In a tabular form compare and contrast meiosis and mitosis.
- 4 (a) Briefly describe the process of tissue culture techniques.
(b) What is a standard seed nursery?
(c) With a diagram, discuss the different types of germination
- 5 (a) Enumerate the limitations witnessed by farmers in asexual propagation in the tropics.
(b) Define plant hormone stating their major groups in Agriculture.
(c) What are the roles of IAA in plant growth and development?
- 6 You have been invited to address Young Farmers' Club on the "Application of plant growth regulators in the multiplication of cuttings. How would you approach the problem?"